ARIZONA GAME AND FISH DEPARTMENT HABITAT PARTNERSHIP PROGRAM HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL

PROJECT INFORMATION				
Project Title: Bennett and Reppy Dams Water Development/Road Improvement			Project No. 10-510	
Region/GMU: Region 5/ Unit 30 B	HPC: Douglas/S	Sierra	Vista	
Project Type: Water Development/Access: Repair existing water catchment, pipeline, storage and drinker system and improved road access.				
Project Description: This project is designed to re-develop and improve two existing concrete dams which will supply water to wildlife and livestock and to improve public access into the southern end of the Dragoons. The dams are located at the mouths of two canyons on the southwest flank of the Dragoon Mountains in steep, rough drainages that are difficult for wildlife to access. These dams were originally developed with the intent of collecting water through a sandpoint (perforated pipe) for a pipeline and drinker system. Both dams are still fully functional; however, neither has any significant storage capacity or drinker system associated with them currently. By re-sealing the base of the dams with epoxy and connecting ¼ mile pipelines to 5,000 gallon storages with drinkers we will be able to water approximately 2,500 acres of rangeland and wildlife habitat that is currently dry for much of the year. By providing water storage and drinkers away from the dams we will improve access to the water and reduce trampling around the dams. The road into this area has three water crossings that are frequently washed out making it inaccessible to the public. By providing heavy maintenance on the road and hardened crossings for those washes we will be able to improve vehicular access for the public. Wildlife Species to Benefit: Coues' whitetail deer, mule deer, bear, javelina				
Possible Funding Partners: Implementation Schedule: Feb. 2011 to Nov. 2012	NEPA Complian	ce: (if	applicable)	
Beginning: Completed:	NEPA Compliance: (if applicable) Completed: Yes X No Projected Completion Date:			
PROJECT FUNDING				
SBG Funds Requested:\$14,950 Cost Share Funds: \$19,740 Total Project Costs: \$34,390				
PARTICIPANT INFORMATION				
Applicant: U.S. Forest Service, Coronado NF, Douglas RD Attn: Joseph Harris Telephone: (520) 364-3468	Address: 1192 W. Saddleview Rd. Douglas, AZ 85607			
AGFD Contact and Phone No. Karen Klima - (520) 457-2268 (If applicant is not AGFD personnel)				
Coordinated with: Permittee: Bennett family, Slash TL, LLC		Date	e: August 19, 2010	
Applicant's signature:		Date	::	

AZ Game and Fish Department Attn: Game Branch 5000 W. Carefree Highway Phoenix, AZ 85086 rgregory@azgfd.gov

WAS PROJECT PRESENTED TO THE LOCAL HPC? YES X NO _

HAS PROJECT BEEN SUBMITTED IN PREVIOUS YEARS? IF SO WAS IT FUNDED? No.

NEED STATEMENT/PROBLEM ANALYSIS:

Water sources in the southern end of the Dragoons are not available through much of the year for wildlife or livestock. Currently the only water source in this area is an AZGF trick tank in Henry Canyon which is approximately ¾ of a mile from one of these sites and 1.5 miles from the other site in rough terrain. In addition the area is frequently inaccessible due to washouts on the main access road (FR 4396). The area is a popular hunting and recreation destination around Tombstone.

PROJECT OBJECTIVES:

Re-develop the Bennett and Reppy dam structures, provide additional water storage capacity as well as drinkers and complete heavy maintenance and improvements to the access road into the area.

PROJECT STRATEGIES:

Using Forest Service funding, AZG&F cooperation, and HPC funding, permanent water will be made available across a larger area and access will be improved for the public. Two existing concrete dams which are equipped with sand points will be cleaned by hand down to the rock surface and resealed with an epoxy coating to repair small cracks in the concrete. A new 1 ½" polyethylene pipe, thermally fused at the joints, will be installed for approximately ¼ of a mile down the canyon to a polyethylene storage system (5,000 gallons at each location, 10,000 gallons total) and a trough located on a flat adjacent to each storage location. This will effectively service approximately 2,500 acres of currently un-watered rangeland and wildlife habitat. In addition maintenance of an existing Forest Service Road into the area and improvements to three wash crossings on that road will make the access into the area safer and more reliable. The three wash crossings will be improved by installing Jersey Barriers along the downstream edge and then filling in behind them with rip rap.

PROJECT LOCATION:

The project is located in the NE ¼ Sec.36, T18S, R23E (Reppy Dam) and E ½ Sec 31, T18S, R24E (Bennett Dam). The road in this project is Forest Road # 4396 which runs from FR 345 (Middlemarch Road) SE across portions of T18S in R23 and R24 E for a distance of 4 miles. The project is on the Reppy allotment, Douglas Ranger District, Coronado N.F. Map attached.

LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name):

The project area is on USFS property and the point of use of the water is on USFS property.

IF PRIVATE PROPERTY, IS THERE A STEWARDSHIP AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?

Not applicable

HABITAT DESCRIPTION:

The area surrounding the project ranges in elevation from around 5,000 feet to 7,000 feet at a high point within a mile of the project. The slopes are predominantly on a southwest aspect along this side of the Dragoons. A significant portion of the affected acreage falls within pinon/juniper and pine oak vegetation types, mostly on steep mountain faces and rocky, rugged terrain to the north and east. The plant community in the area to the southwest is a desert scrub and includes acacia species, mountain mahogany, desert ceanothus, catclaw mimosa, beargrass, pricklypear cactus, sotol, hairy and sideoats grama, Canes beardgrass, Plains and Lehman Lovegrass.

ITEMIZED USE OF FUNDS:

Bennett/Reppy dams Project Proposal – Itemized Use of Funds			
Total Project Cost:		34,390.00	
Cost Share Funds		19,740.00	
SBG Funds NGO Volunteer and Permittee Contribution		14,650.00	
Miscellaneous Labor for 3 days		250.00	
	Total:	250.00	
Forest Service Contribution Jersey barriers and rip rap for crossings(half share)		6,800.00	
Labor for three people for 3 days		2,100.00	
Labor and Equip. Road Crew USFS		8,000.00	
Archeological Survey		650.00	
Wildlife Biologist (1 day)		390.00	
NEPA		1,200.00	
Cement mixer		200.00	
Generator		100.00	

Wildlife ramp		50.00	
HPC Contribution:	Total:	19,490.00	
HE CONTIDUCION.			
2 – 5,000 gallon PE storage tanks		4,000.00	
2- water troughs		1,500.00	
2– Galvanized culvert float box		150.00	
2 – 21' 1 ¼"Galvanized Steel Pipe		40.00	
2 – 1 ¼" Float valves w/ PE Balls		180.00	
1 ¼" Steel Ebows, Street Ells, Unions,	Misc. Fittings	80.00	
Epoxy sealant for face of dams (4 gal	lons)	600.00	
Approximately 0.5 miles 1 1/4" PE pi	ре	1,300.00	
Jersey barriers and riprap for crossing	gs (half share)	6,800.00	
	Total:	14,650.00	

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

- USFS: Planning, implementation and supplying materials; NEPA compliance, labor
- AZGFD: Support for project and funding through their habitat improvement funds and special tag funds through various programs, Labor and planning

- Various Non-Government Organizations
- Permittee

PROJECT MONITORING PLAN:

For monitoring specific to this project, photographs will be taken before and after installation. Ecological condition data will also be gathered by the Forest Service through an Allotment Management Plan (AMP) and Annual Operating Instructions (AOI). The Forest Service monitors both effectiveness and implementation monitoring. Yearly, implementation monitoring is conducted to evaluate the amount of utilization and distribution the livestock permitted on the allotment achieved, as well as the maintenance/construction of improvements outlined in the AOI. Approximately every 5 years, effectiveness monitoring is conducted to evaluate the vegetation and soil condition trends, and make management decisions accordingly.

PROJECT MAINTENANCE:

The maintenance of the project will be the responsibility of the Bennett Ranch (Slash TL, LLC), permittee on the Reppy allotment. It will be ensured that water will be made available year-round to wildlife. Road maintenance will be provided by the USFS.

PROJECT COMPLETION REPORT TO BE FILED BY:

U.S. Forest Service – Joseph Harris, Range and Watershed Staff

WATER DEVELOPMENT PROJECTS (see attached worksheet):

TREE SHEARING (AGRA-AXE, PUSH) PROJECTS (see attached worksheet):

N/A

ARIZONA GAME AND FISH DEPARTMENT WATER DEVELOPMENT WORKSHEET

PROJECT NAME: Bennett and Reppy Dams Water Development/Road Improvement

1)	Is the water development listed as a priority in the most recent "Wildlife Water Development Annual Implementation Schedule?" NO
2)	Please list the Development Branch personnel and date coordinated with for this project. Brad Fulk, May 15, 2010 Karen Klima, August 20, 2010
3)	What is the estimated annual inches of precipitation for the area? (mark one)2-44-66-88-1010-12 _X_12-1414-16>16
4)	Is there a perennial water source available to big game within four miles of this project? _X_YES (please complete #5 below)NO (skip #5 below)
5)	For the accessible, perennial water source nearest this project: Name of water source: Henry Canyon Trick Tank, AZGF Type of water source (catchment, spring, dirt tank, etc.): concrete watershed w/ water storage and drinker Ownership of water source: USFS Distance in miles from project: 3/4 mile from Reppy dam to trick tank and 1.5 miles from Bennet dam to trick tank in rough terrain
6)	Is the target wildlife species a result of transplant efforts?YESX_NO
7)	Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument, etc). If private land, list landowner. Forest Service administered land
8)	Please provide the following information about access to the proposed site: Type of access (mark one):2x4 vehicles _X_4x4 onlyfoot only** **If foot access only: Distance in miles: Approx. hiking time:
	Does access to this site require crossing private or tribal lands?YES _X_NO
	Please describe any restrictions to public access: The primary restriction to public access is the poor Condition of the road and three wash crossings that are routinely impassible.

9)	Please list below (or on a separate sheet) the <u>material type and dimensions</u> of each component
	proposed to be added, modified, or repaired.

2 - 5000 gal. HDPE storage tanks, 8' wide x 12' high

.5 mile 1 1/4" 200 psi PE pipeline, thermally fused joints

- 2-11' heavy equipment tire trough drinker with concrete bottom
- 2 24" galvanized culvert float box with lockable lid
- 2 20' joints 1 1/4" Galvanized steel pipe

Various galvanized fittings and brass float valves for trough and tank plumbing

Float guards over float mechanisms and anywhere else that there might be a threat

Freeze guard insulation on all exposed fittings and connections

Wildlife access and escape ramps in each open water source

10) Was a site visit completed? ____ Yes _X_ No

If Yes, please list personnel that attended and date.

Forest Service personnel and AZGFD manager Brad Fulk have both been to the site.